

EP 0 471 986 A3



Europäisches Patentamt
European Patent Office
Office européen des brevets



⑪ Publication number:

0 471 986 A3

⑫

EUROPEAN PATENT APPLICATION

⑬ Application number: 91112100.2

⑮ Int. Cl. 5: C12M 1/40, G01N 27/30

⑭ Date of filing: 19.07.91

⑯ Priority: 20.07.90 JP 193449/90
20.07.90 JP 193646/90
15.07.91 JP 173737/91

⑰ Date of publication of application:
26.02.92 Bulletin 92/09

⑱ Designated Contracting States:
CH DE FR GB IT LI

⑲ Date of deferred publication of the search report:
29.04.92 Bulletin 92/18

⑳ Applicant: MATSUSHITA ELECTRIC
INDUSTRIAL CO., LTD.
1006, Oaza Kadoma
Kadoma-shi, Osaka-fu, 571(JP)
Applicant: KYOTO DAIICHI KAGAKU CO., LTD.
57 Nishiaketa-cho Higashikujo Minami-ku
Kyoto-shi Kyoto-fu(JP)

㉑ Inventor: Nankai, Shiro
4-50-12, Nasuzukuri
Hirakata-shi, Osaka-fu(JP)
Inventor: Kawaguri, Mariko
202, 1-12-1, Dainichi-cho
Moriguchi-shi, Osaka-fu(JP)
Inventor: Yoshioka, Toshihiko

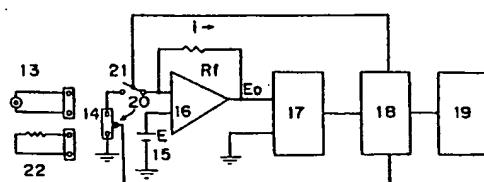
4-15-11-302, Shinmori, Asahi-ku
Osaka-shi, Osaka-fu(JP)
Inventor: Tsutsumi, Haruhiro
1833-1, Tanokubo, Shigenobu-cho
Onsen-gun, Ehime-ken(JP)
Inventor: Terao, Kyozo
1007-10, Kubota-cho, Kume
Matsuyama-shi, Ehime-ken(JP)
Inventor: Tanimoto, Naoki
1058-15, Shitsukawa, Shigenobu-cho
Onsen-gun, Ehime-ken(JP)
Inventor: Yoshioka, Masahiro
2-11-4, Higashiyosumi-cho
Takatsuki-shi Osaka-fu(JP)
Inventor: Hyodo, Hiroshi
1640-8, Minamigasa-cho
Kusatsu-shi, Shiga-ken(JP)
Inventor: Uchigaki, Takatoshi
5, Higashitsukurimichi, Koaza Kamikoma,
Oaza
Yamashiro-cho, Souraku-gun, Kyoto-fu(JP)

㉒ Representative: Selting, Günther, Dipl.-Ing. et
al
Patentanwälte von Kreisler, Selting, Werner
Delchmannhaus am Hauptbahnhof
W-5000 Köln 1(DE)

㉓ Quantitative analysis method and its system using a disposable sensor.

㉔ A sensor 13 is inserted into a connector 14. A constant voltage required to obtain a response current is applied across the connector 14 by a voltage applying source 15 at timings required. A response current of the sensor 13 inserted into the connector 14 is converted into a voltage by a current-to-voltage converter 16, and the amount thereof is determined by a microcomputer, the analysis results being displayed onto a display unit.

Fig. 4





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 91112100

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 5)
X	WO-A-9000738 (MARKWELL MEDICAL IST.) * abstract; page 22, line 29 - page 23, line 23; claims 1,37 *	1-6	C12M1/40 G01N27/30
A	US-A-4713165 (G. CONOVER et al.) * abstract; column 14, line 43 - column 15, line 17; column 18, line 54 - column 19, line 22 *	1-6	
A	EP-A-0220888 (FLOWLINE SYST. LTD.) * abstract; claims 1-9; figure *	1-6	
A	EP-A-0230472 (MATSUSHITA ELEC. IND. CO.) * abstract; figures 3,8 *	1-6	
A	DE-A-3822530 (RUHRKOHLE AG) * the whole document *	1-6	
TECHNICAL FIELDS SEARCHED (Int. Cl. 5)			
C12M G01N			
The present search report has been drawn up for 5 claims 1-6			
Place of search	Date of completion of the search	Examiner	
BERLIN	23.10.1991	MOUTARD, P.	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : technological background O : non-patent disclosure P : intermediate document & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-patent disclosure P : intermediate document			



European Patent
Office

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,
namely claims:
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X | LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,
namely:

1. claims 1-6
A system for automatically distinguishing the quality of a chip mounted onto a sensor of an analysis system
2. claims 7-9
Means for an analysis system to work

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.
namely claims:
- None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

namely claims: 1-6

THIS PAGE BLANK (USPTO)